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(54)	MULTIDIRECTIONAL ADAPTABLE
	VERTEBRAL OSTEOSYNTSIS DEVICE
	WITH REDUCED SPACE REQUIREMENT

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(58)Field of Search ...... 606/61, 60, 73, 606/72, 69; 411/383, 388, 389, 397

(56)

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#### **ABSTRACT**

A vertebral osteosynthesis device includes at least two bone anchoring elements (1) in the vertebral bone structures respectively (S, L5.), a longitudinal linking member (2) between the bone anchoring elements, and connector links (3) between the bone anchoring elements and said linking members. Each bone anchoring element includes a bond fixing part (4), a head (5) to be gripped by a screwing device, a threaded shaft (7) extending the grip head, and a clamping element (8) to be screwed on said shaft to lock together the connector link, the longitudinal linking member and the corresponding bone anchoring element; the threaded shaft (7) is provided at its end with a hinge ball joint (11) in a housing (12) of the grip head (5), enabling a multidirectional adjustment of the shaft (7) and a positioning of the connector link (3) adapted to the vertebral segment configuration (S, L5, . . . Lw) receiving the bone anchoring elements.

### 13 Claims, 8 Drawing Sheets

